

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An image sensing apparatus comprising:

~~a sensor unit which consists of a plurality of pixels for converting radiation to an electrical signal;~~

~~a first power source adapted to supply electrical power to said sensor unit;~~

a radiation generating apparatus adapted to generate radiation after receiving an exposure preparation signal;

a sensor comprising a plurality of image pick up elements for converting radiation to electrical signals;

a signal line adapted to read out said electrical ~~signal~~ signals from said image pick up elements;

a preamplifier adapted to amplify said electrical ~~signal~~ signals read out from said image pickup elements; by said signal line;

a first power source adapted to set said signal line to a reference potential so as to set said image pick up elements to an initialized state;

a second power source adapted to supply electrical power to said preamplifier; and

a control circuit adapted to control said ~~second power source to start a supply of electrical power to said preamplifier, after said first power source starts to supply electrical power;~~ first power source and said second power source such that said first power source supplies electrical power after a first period of time elapses from receipt of said exposure preparation signal, and said second power source supplies electrical power to said

preamplifier after a second period of time elapses from receipt of said exposure preparation signal,

wherein said second time period is longer than said first time period and
wherein said first power source is connected to said signal line.

~~wherein said first power source supplies electrical power to said sensor unit~~
~~through at least said signal line.~~

2. to 18. (Cancelled)

19. (Currently Amended) An image sensing apparatus according to Claim 1, ~~further comprising a radiation generating apparatus for generating the radiation;~~ and wherein said control circuit controls said second power source so as to start supply of electrical power to said preamplifier on the basis of a timing of ~~receiving~~ a reception of an exposure completion signal for said radiation generating apparatus.

20. (Previously Presented) An image sensing apparatus according to Claim 19, wherein the exposure completion signal is generated by a radiation exposure dose monitor (AEC) in accordance with a reception of radiation or a monitor circuit for monitoring the electrical power of said radiation generating apparatus.

21. (Currently Amended) An image sensing apparatus according to Claim 1, ~~further comprising a radiation generating apparatus for generating the radiation;~~ and an exposure permission timer adapted to generate a radiation exposure permission

signal for said radiation generating apparatus to generate radiation after a predetermined time elapses from supply of the electrical power from said first power source to said sensor unit, and

wherein said control circuit controls said second power source so as to start a supply of electrical power to said preamplifier on the basis of a timing of generating a radiation exposure permission signal.

22. (Previously Presented) An image sensing apparatus according to Claim 21, wherein said exposure permission timer generates the radiation exposure permission signal to said radiation generating apparatus to generate radiation on the basis of a time which is required to obtain a stable state of said sensor unit.

23. (Previously Presented) An image sensing apparatus according to Claim 21, wherein said exposure permission timer generates the radiation exposure permission signal to said radiation generating apparatus to generate radiation on the basis of a time which is required to obtain a stable state of an offset of said sensor unit.

24. (Previously Presented) An image sensing apparatus according to Claim 21, wherein said exposure permission timer checks in a real time manner an offset amount of said sensor unit, and generates the radiation exposure permission signal to said radiation generating apparatus on the basis of the checked offset amount.

25. (Cancelled)

26. (Previously Presented) An image sensing apparatus according to Claim 1, wherein said control circuit controls to read-out a data from said sensor unit, and controls said second power source so as to stop a supply of electrical power to said preamplifier on the basis of a timing of the completion of the read-out operation.

27. (Currently Amended) An image sensing apparatus according to Claim 1, ~~further comprising a radiation generating apparatus for generating radiation, and~~ wherein said control circuit controls said first power source so as to start a supply of electrical power to said sensor [[unit]] on the basis of a timing of inputting the exposure preparation signal.

28. (Previously Presented) An image sensing apparatus according to Claim 27, wherein said control circuit controls said sensor unit so as to start an offset correction on the basis of the timing of outputting the exposure preparation signal, and said radiation generating apparatus so as to expose the radiation at a timing of completing the offset correction.

29. to 31. (Cancelled)

32. (New) An image sensing apparatus according to Claim 1 further comprising a start command transmitting device adapted to transmit said exposure preparation signal to said radiation generating apparatus and said control circuit, in accordance with an operation of an operator.

33. (New) An image sensing apparatus according to Claim 1, further comprising a start command transmitting device adapted to transmit said exposure preparation signal to said radiation generating apparatus and said control circuit, through a system storing an information relating to radiation.